

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Dong-ku KIM, Sang-hyun DO and Hyung CHOI

Application No: 09/555,046

Group Art Unit: UNKNOWN

Filed: May 24, 2000

Examiner: UNKNOWN

For: ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING RECEIVER WHERE
FFT WINDOW POSITION RECOVERY INTERLOCKS WITH SAMPLING CLOCK
ADJUSTMENT AND METHOD THEREOF

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Please enter the following amendments to the application prior to examination:

IN THE SPECIFICATION:

Page 5, line 3, delete "216" and insert --218--.

line 4, delete "216" and insert --218--.

Page 5, line 12, delete " $\gamma(\bullet)$ " and insert -- $\gamma[\hat{\tau}_l]$ --

IN THE CLAIMS:

1. (Amended) A method of interlocking FFT window position recovery with sampling clock control in symbol units in an orthogonal frequency division multiplexing (OFDM) receiver for receiving an OFDM symbol consisting of a useful data interval and a guard interval, the method comprising the steps of:

(a) extracting a pilot signal from fast-Fourier-transformed OFDM received signals, and detecting inter-pilot phase differences;

(b) averaging phase differences detected in step (a) for a symbol to generate a mean phase difference value and normalizing the mean phase difference by dividing [it] the mean